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 FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

50X1-HUM

CD NO.

COUNTRY USSR
 SUBJECT Economic; Technological - Construction machinery
 HOW PUBLISHED Semiweekly periodical; daily newspapers
 WHERE PUBLISHED Oslo; USSR
 DATE PUBLISHED 5 Aug - 11 Sep 1952
 LANGUAGE Norwegian; Russian

DATE OF INFORMATION 1952

DATE DIST. 10 Dec 1952

NO. OF PAGES 2

SUPPLEMENT TO REPORT NO.

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SOURCE Periodical and newspapers as indicated.

NEW SOVIET TUNNELER, EARTH-MOVING MACHINES

UTILIZES PUMP, VIBRATOR -- Oslo, Soviet Nytt (Soviet Embassy publication), 9 Aug 52

Soviet engineers G. Parabek and I. Fydsel [Norwegian transliteration] have developed a new tunneling device which obviates the extensive surface excavations usually required for laying pipes and cables. It consists essentially of a cylinder affixed to the end of a rod. While the cylinder is held against the place where tunneling is to begin, a pump exhausts the air from it, so that atmospheric pressure forces it into the earth. As the cylinder starts its penetration, a vibrator attachment begins to function, packing the tunnel walls; this prevents collapse when the cylinder is withdrawn. The tunneler can advance 20 meters in one run. At the start of each run, a vertical shaft must be dug to make room for the machine's supporting frame and the operators.

NEW MODEL MORE MANEUVERABLE -- Moscow, Trud, 14 Aug 52

The Novo-Kramatorsk Plant imeni Stalin has turned out a new excavator, the EShA-4-40, distinguished by its good maneuverability and high productivity. [The designation indicates it is a modification of the ESh-4-40 walking excavator.]

NEW UNIVERSAL TYPE -- Tbilisi, Zarya Vostoka, 26 Aug 52

The Kutaisi Gornyak Plant is working on a new-type universal excavator which can also be rigged as a road grader and a crane.

DESIGN NEW EXCAVATOR -- Moscow, Trud, 14 Aug 52

Designers at the Sverdlovsk Uralmash Plant are developing designs for a new walking excavator of increased productivity and greater reach. The machine is to be equipped with a 25-cubic-meter bucket.

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Leningradskaya Pravda, 10 Sep 52

The Sverdlovsk Uralmash Plant has begun work on a 14/75 walking excavator. The bucket and turntable are already completed, and workers are now welding the boom. When finished, the machine will go to the builders of the South Ukrainian Canal.

NEW EARTH-HAULING TRAILER -- Kiev, Pravda Ukrainy, 5 Aug 52

The Khar'kov Road-Machinery Plant has completed a new two-axle earth-hauling trailer, the D-258, for the builders of the Kuybyshev GES. Designed to be towed by an S-80 tractor, it has a 15-cubic-meter capacity and is 9.5 meters long.

Moscow, Trud, 22 Aug 52

The Khar'kov Road-Machinery Plant recently completed an early shipment of 19 bulldozers for the builders of the South Ukrainian and North Crimean canals.

FILL ORDERS EARLY -- Kishinev, Sovetskaya Moldaviya, 29 Aug 52

During the first half of 1952, the Osipenko Road-Machinery Plant shipped about 200 scrapers and bulldozers to the builders of the Main Turkmen and South Ukrainian canals and the builders of the Stalingrad and Kuybyshev GES. All orders were filled ahead of schedule.

PRODUCE SLIDING SCRAPER -- Tbilisi, Zarya Vostoka, 11 Sep 52

The Tbilisi Gruzsel'elektro Plant has established production of special sliding scrapers for leveling out areas around irrigation canals. A large consignment of the scrapers has been sent to MTS centers in the southern Caucasus and in the Dagestanskaya ASSR. Other scrapers produced by the plant are in use in several rayons of the Georgian SSR.

In 1953, the plant will double its scraper production.

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